Claims

Claim 1. An interface having means for presenting
items for selection by a user of a data processing
system, and having means for executing the selected
items, said interface comprising:

means for representing a plurality of interface
objects in an object database; and

means for dynamically associating different ones
of said interface objects into a plurality of logical
frame presentations based upon the data within each of
said different ones of said interface objects.

Claim 2. The interface of claim 1 wherein at least
one of said plurality of interface objects represent
at least one attribute of at least one system re-
source.

Claim 3. The interface of claim 1 wherein at least
two of the plurality of interface objects represent a
hierarchical relationship between components of the
data processing system based upon the data within each
of said at least two interface objects.

Claim 4. The interface of claim 1 wherein the inter-
face objects are dynamically associated according to
said hierarchical relationship represented within each
of said at least two interface objects.

Claim 5. The interface of claim 1 further comprising
means for managing of a screen presentation of the
objects and a user interaction with said objects based

4   upon ~~the~~ data within at least one of the plurality of

5   interface objects.

1   Claim 6. The interface of claim 2 further comprising

2   means for utilizing a current value of said at least

3   one attribute of said at least one system resource for

4   presentation to said user.

1   Claim 7. The interface of claim 2 further comprising

2   means for utilizing at least one instance of at least

3   one of said system resources for presentation to said

4   user for informing said user of an availability of

5   said instance of said system resource.

1   Claim 8. The interface of claim 7 further comprising

2   means for allowing the user to select said instance of

3   said system resource presented to said user.

1   Claim 9. The interface of claim 2 further comprising

2   means for utilizing a current value of said at least

3   one attribute of said at least one system resource for

4   a validation of a user response.

1   Claim 10. The interface of claim 1 further comprising

2   means for constructing a command by associating at

3   least one user input value with an option within said

4   at least one of said interface objects.

1   Claim 11. The interface of claim 10 further comprising

2   means for executing said ~~constructed~~ command.

1   Claim 12. The interface of claim 11 further comprising

2   means for logging said ~~executed~~ command for later

3   reexecution.

1 Claim 13. The interface of claim 1 further comprising
2 means for constructing and executing a command based
3 on a current state of said data processing system, a
4 plurality of user selections, and ~~the~~ data within said
5 interface objects.

1 Claim 14. The interface of claim 1 further comprising
2 means for retrieving said objects from said object *interface*
3 database in response to said user selected item.

1 Claim 15. The interface of claim 1 further comprising
2 means for iteratively presenting said interface
3 objects to said user dependent upon a plurality of
4 user selections and ~~said~~ data within said interface
5 objects.

1 Claim 16. The interface of claim 1 further comprising
2 means for accessing at least one interface object from
3 a plurality of screen presentations.

1 Claim 17. The interface of claim 1 further comprising
2 means for accessing at least one screen presentation
3 from a plurality of interface objects.

1 Claim 18. The interface of claim 1 further comprising
2 means for altering the ~~interface~~ object database from
3 within the interface during a session of execution of
4 said interface, and means for reflecting ~~said~~ *an* altered
5 interface during ~~said~~ *a* same session of execution of
6 said interface.

1 Claim 19. The interface of claim 1 further comprising
2 means for altering said ~~interface~~ object database by
3 creating at least one new interface object.

1 Claim 20. The interface of claim 3, further comprising
2 means for directly entering said ~~hierarchy of~~ inter-
3 face objects at at least one of a plurality of loca-
4 tions within said hierarchy.

Hierarchical relationship by entering

1 Claim 21. The interface of claim 1 further comprising
2 means for displaying said logical frame presentations
3 by a plurality of graphical libraries.

1 Claim 22. The interface of claim 1 further comprising
2 means, within said interface ~~data~~ objects, for repre-
3 senting said items in said logical frame presentation
4 in at least one of a plurality of ways dependent upon
5 a graphical context.

1 Claim 23. The interface of claim 1 further comprising
2 means, within said interface ~~data~~ objects, for repre-
3 senting said items in said logical frame presentation
4 in at least one of a plurality of ways dependent upon
5 a linguistic context.

1 Claim 24. The interface of claim 1 further comprising
2 means for accessing a screen library having means for
3 indicating to said user a number of said items in said
4 logical frame presentation currently outside of a
5 visual screen presentation to said user.

1 Claim 25. The interface of claim 1 further comprising
2 means for providing at least one logical frame presen-
3 tation dependent upon at least one access control
4 policy applied to said plurality of interface objects.

1 Claim 26. A method for presenting items for selection
2 by a user of a data processing system, said method
3 comprising:

4   representing a plurality of interface objects in
5   an object database; and

6   dynamically associating different ones of said
7   interface objects with a plurality of logical frame
8   presentations based upon data within each of said
9   different ones of said interface objects.

Claim 27. A computer program having means for present-
ing items for selection by a user of a data processing
system, said computer program comprising:

4   means for representing a plurality of interface
5   objects in an object database; and

6   means for dynamically associating different ones
7   of said interface objects with a plurality of logical
8   frame presentations based upon data within each of
9   said different ones of said interface objects.